



सत्यमेव जयते

भारत सरकार

Government of India

विद्युत मंत्रालय

Ministry of Power

केन्द्रीय विद्युत प्राधिकरण

Central Electricity Authority

विद्युत संचार विकास प्रभाग

Power Communication Development Division



No.: CEA/PCD/ PTCC/BHR-164/ 556-58

Date: 21.09.2020

Subject: PTCC proposal of 220 kV D/C Raxaul (New) – Gopalganj transmission line -
regd.

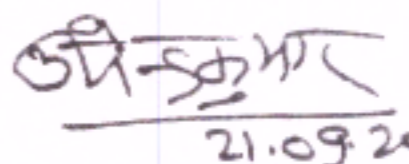
Ref: (i) BSPTCL letter no. TELE/PTCC/08/2019/308 dated 02.09.2019
(ii) BSNL Ref. No. DE/PTCC/ER/EBR050920192599/01 dated 10.12.2019
(iii) East Central Railway Ref. No. ECR/S&T/PTCC/134, Pt. III/1759 dated
22.07.2020
(iv) Defense Ref. No. B/46937/Sigs 7(b)/1798 dated 31.10.2019

The PTCC proposal submitted vide ref. (i) has been examined. The LF induction on telecom cables of BSNL and block & telecom circuits of East Central Railway, as per details furnished vide ref. (ii) and (iii) respectively, has been examined. The Soil Resistivity value has been taken as 15,000 Ohms-cm. Voltages likely to be induced on paralleling telecom cables of BSNL and block & telecom circuits of East Central Railway under single line to ground fault condition are enclosed at Annex-I & II respectively. The screening factors as applicable have been considered. Defense has accorded NOC vide above ref. (iv) for this line (a copy enclosed at Annex-III).

Taking above into consideration, kindly take necessary action regarding issue of PTCC route approval.

Encl.: As above.

m/c


21.09.2020
(Upendra Kumar)
Chief Engineer

To,
DE (PTCC), Eastern Region,
Inspection & QA Circle, BSNL
Q.A. Bhawan, EP-GP Block, Sector-V,
Salt Lake, Kolkata – 700091

Copy to:

1. General Manager (S&T), East Central Railway, Hajipur, Bihar - 844118 – (with Annex – II)
2. Chief Engineer (System Operation), Bihar State Power Transmission Co. Ltd., 4th floor,
Vidyut Bhawan, Bailey Road, Patna - 800021

BHR-164

Details Particular of the Telecom Alignment in Connection with (220 KV D/C T/L of Raxual (New)
to Gopalganj T/L offered by BPTCL, Patna
Name Of Exchange:

SR Value: 15000.2-0M

SI No	Name of the Telecom Alignment	Along Road or Rail	Average Separation From Road or Rail	Length	Full Name of the Circuits	Metallic or Earth Return	Marked Intermediate or Tapping	(IV) Induced Voltage
1.	Sugauli	NH28	0.5 km	0.5 km	BTS, Exchg OFC Media			IV Less than 430V
2.	Chapawa	NH28	From AP-19 1 km from	1.0 km	BTS, Minlink			
3.	Harsidhi		AP-23, 24 - AP-30	5.0 km	BTS, Exchg OFC Media			
4.	Noneya		- AP-34	2 km	BTS, Minlink			
5.	Nayagaon		- AP-35	2.5 km	BTS, Minlink			
6.	Khairawa		- AP-37	1 km	BTS, Minlink			
7.	Sataha		- AP-38	4 km	BTS, Exchg OFC Media			
8.	Sareya khas		- AP-40	5 km	BTS, Minlink			
9.	Parharpur		- AP-42	0.2 km	BTS, OFC Media			
10.	Radhia		- AP-47	0.1 km	BTS, OFC Media			
11.	Areraj		- AP-44	0.4 km	BTS, Exchg OFC Media, Copper Media			
12.	Kamalua		- AP-47	0.3 km	BTS, Minlink			
13.	Malahu		- AP-49	4.5 km	BTS, Exchg OFC Media			
14.	Parsa		- AP-51, 52	0.1 km	BTS, minlink			
15.	Loknathpur		- AP-57	0.1 km	BTS minlink			
16.	Salaha		- AP-48	3.0 km	BTS minlink			
17.	OFC CROSS POINT	AP-18 to AP-19	AP-42 to AP-43	AP-35 to AP-36	AP-46 to AP-47			

P. N. S. R.

SRINIVASTAVA
DIRECTOR-II
ASSISTANT DIRECTOR-II
C.E.A.
Ministry of Power
Govt. of India
New Delhi

(1/2)

BHR-164

Details particular of the Telecom Alignment in connection with (220kv D/C T/L of Raxaul(new)-Gopalgani
GSS T/L offered by BSPTCL,PATNA

SR Value: 15000 Ω-cm

Name of Exchange

Sl. No	Name of the Telecom Alignment	Along Road or Rail	Average Separation From Road or Rail	Length	Full Name Of The Circuits	Metallic or Earth Return	Marked Intermediate or Tapping	Induced Voltage (IV)
1-	670 Palgani - mohamadpur NH-28 ofc route	Road	10 meter	180 meter	OFC-24F NH-28 Mohamadpur to Mohamadpur	NA	NA	IV less than 480V

Prateek

प्रतीक श्रीवास्तेव/PRATEEK SRIVASTAVA
 सहायक निदेशक-II/Asstt. Director-II
 केंद्रीय विद्युत प्राधिकरण/C.E.A.
 विद्युत मंत्रालय/Ministry of Power
 भारत सरकार/Govt. of India
 नई दिल्ली/New Delhi

(2/2)

ANNEXURE - II

Case No.: BHR-164 Name of the Power line: 220 kV D/C Raxaul (New) – Gopalganj transmission line			Map Scale : 1cm=500mts Total Length : 64.926 km. S.R. Value : 15,000 Ohms-cm		
S.No	Telecom. Details	Length of Parallelism in Km.	Mutual Coupling in Ohms.	Effective Fault current in Amps.	I.V in Volts.

East Central Railway					
ECR/S&T/PTCC/134, Pt. III/1759 dated 22.07.2020					
1	Semra – Sugauli	3.2	0.0015	8300	12
2	Sugauli – Ramgarhwa	7.4	0.0074	9400	70

P. Prateek

परीक्षक (विद्युत) P. PRATEEK BASTAVA
 सहायक निरीक्षक (विद्युत) Director-II
 वेस्टर्न डिपार्टमेंट ऑफ पी. टी. सी. ई. ए.
 विद्युत विभाग / Ministry of Power
 भारत सरकार / Govt. of India
 नई दिल्ली / New Delhi

Tele: 23019746

BMR-164
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~~Annexure III~~
Directorate General of Signals
Signals 7
General Staff Branch
Integrated HQ of MoD, (Army)
DHQ PO, New Delhi - 110011

B/46937/Sigs 7(b)/1798/

31 Oct 2019

Chief Engineer (System Operation)
Bihar State Power Transmission Co. Ltd.
4th Floor, Vidyut Bhawan, Bailey Road,
Patna-800 021.

PROPOSAL FOR PTCC APPROVAL OF 220KV D/C RAXAUL NEW-GOPALGANJ T/L

1. Ref your letter No 308/TELE/PTCC/08/2019 dt 02 Sep 2019. (copy att).
2. No Objection Certificate (NOC) is accorded based on inputs provided vide Map sheet received under your letter mentioned above.
3. Documents alongwith map sheets (in original) are returned herewith for your further necessary action.



(A Rawat)
Maj
GSO 1 (Comn)
for SO-in-C

Enclosures : (As above)

Copy to :-

✓ The Director (PTCC), CEA
Power Communication Development Division
NRPC Complex, 18-A Shaheed Jeet Singh Marg
Katwaria Sarai, New Delhi - 110016

Divisional Engineer Telegraph (PTCC)
O/o GM (North); BSNL, QA & Inspection Circle,
CTS Compound, Africa Avenue Road,
Netaji Nagar, New Delhi-110023

for information